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PRE-APPEAL BRIEF REQUEST FOR REVIEW		Docket Number (Optional) 1006/0146PUS1	
hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)]	Application Number 10/880,866 Filed 25 May 2006  First Named Inventor MAMSER		
on			
Typed or printed name	Art Unit 3785	1 -	Examiner LEO, LEONARD R
Applicant requests review of the final rejection in the above-identified application. No amendments are being filed with this request.			
This request is being filed with a notice of appeal.			
The review is requested for the reason(s) stated on the attached sheet(s).  Note: No more than five (5) pages may be provided.			
I am the  applicant/inventor.  assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)  attorney or agent of record. Registration number51011  attorney or agent acting under 37 CFR 1.34. Registration number if acting under 37 CFR 1.34. NOTE: Signatures of all the inventors or assignees of record of the	entire interest o	Martin R. Gei Typed o 1.703.6; Telept February 6, 20	r printed name 21.7140 none number Date
Submit multiple forms if more than one signature is required, see below*.  "Total of forms are submitted.			

This collection of information is required by 36 U.S.C. 132. The information is required to obtain or retain a benefit by the public which is to life (and by the USPTO is process) an application. Confiderability is gowered by \$6 U.S.C. 122 and 57 CFR.1.11, 1.14 and 41.6. This collection is estimated to take 12 minutes to complete, including pathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete ins form and/or suppleations for reducing this burden, should be sent to the Chief will be sent to the Chief is form and/or suppleations for reducing this burden, should be sent to the Chief will be sent to the Chief is form and/or suppleations for reducing this burden, should be sent to the Chief is form and/or suppleations for reducing this burden, should be sent to the Chief is formation. Officer, U.S. Popartiment of Commerce, P.O. Box 1450, Alexandris, V.A. 22313-1450. DO NOT SEND FIES OR COMPLETED FORMSTO THIS ADDRESS. SEND TO Mail Slop Aff. Commissioner for Patriets, P.O. Box 1450, Alexandris, V.A. 22313-1450.

Attorney Docket No.: 1006/0146PUS1 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Oliver MAMBER Conf. No.: 5033

Application No.: 10/580,656 Art Unit: 3744

Filed: May 25, 2006 Examiner: Leonard LEO

Title: HEAT EXCHANGER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## STATEMENT IN SUPPORT OF REQUEST FOR PRE-APPEAL BRIEF REVIEW

Sir:

Claim 17 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for reciting that a second composition comprises cerium while claim 15 from which it depends recites that the second composition comprises boron. It is respectfully submitted that claim 17 requires a composition that includes both cerium and boron, consistent with the recitation of boron and/or cerium in, for example, claim 1. Claim 17 is therefore submitted to be definite and supported by the original specification.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Inbe in view of Troczynski. Claim 1 recites, inter alia, a heat exchanger having a number of heat transfer surfaces made from aluminum or aluminum compounds to which a plurality of layers have been applied. The first layer comprises nanoparticles of a first composition, providing corrosion resistance, and the second layer comprises nanoparticles of a second composition different than said first composition and having

Serial No. 10/580,656

Reply to Office Action dated September 6, 2011

hydrophilic properties. The nanoparticles of the first layer or the second layer comprise organic and/or inorganic compounds of boron and/or cerium dissolved and/or dispersed in inorganic and/or organic solvents, and each laver thickness amounts to less than 1 um or equal to 1 µm, and the total layer thickness amounts to less than 5 µm or equal to 5 µm.

Inbe does not show a corrosion resistant layer having nanoparticles as claimed or a corrosion resistant layer having the claimed thickness or a hydrophilic layer having the claimed thickness. However, Trocznyski disclose a 50 um thick anticorrosion layer comprising nanoparticles. It might be possible to use Trocznski's disclosed anticorrosion layer as the anticorrosion layer of Inbe. However, in order to meet the limitations of claim 1. Trocznski's anticorrosion laver would have to be reduced in thickness by a factor of 50. Applicant maintains that the record does not include a proper reason for thinning Trocznski's anticorrosion layer in this manner and therefore submits that the requirements of KSR International Co. v. Teleflex. Inc., 550 U.S. 398 (2007) have not been satisfied and that claim 1 is allowable over the art of record.

Applicant has argued that "obvious design expedient" is not a legally sufficient reason for changing the thickness of Trocznski's anticorrosion layer. The examiner did not respond to this argument except to state that the rejection also included the statement: "One of ordinary skill in the art would employ any layer thickness to achieve a desired strength, longevity, effectiveness or heat transfer." It is respectfully submitted that this statement, taken alone or in combination with the "obvious design expedient" statement, does not constitute a reason for using an anticorrosive layer that is 98% thinner than the one disclosed in the art.

Serial No. 10/580,656 Reply to Office Action dated September 6, 2011

It is respectfully submitted that the record does not indicate what strength, longevity, effectiveness or heat transfer would be desired by a person of ordinary skill in the art or how reducing the thickness of a given layer by a factor of 50 would achieve such a result. It seems reasonable that <a href="high-light-l

The Advisory Action refers to DE 10213756 and Yoon, neither of which is applied in the present rejection of claim 1. These references each disclose thin layers of coating materials that are different from what is disclosed in Troczynski and different from what is disclosed in claim 1. The fact that various thin coating layers are known to exist does not constitute a reason for reducing the thickness of Trocznyski's anticorrosive layer by 98%, and mentioning these new references in an Advisory Action does not provide further support for the rejection of claim 1.

Nothing in the record suggests that a person looking at Inbe and considering what anticorrosive material to use would select the material of Troczynski and then apply no more than 1 µm of it (instead of the 50 µm as disclosed) and expect to achieve a useful result. For these reasons, it is respectfully submitted that the statement "One of

Docket No. 1006/0146PUS1

Serial No. 10/580.656 Reply to Office Action dated September 6, 2011

ordinary skill in the art would employ any layer thickness to achieve a desired strength,

longevity, effectiveness or heat transfer" does not constitute a reason for a person of

ordinary skill in the art to thin Troczynski's anticorrosive layer by a factor of 50 before

adding it to Inbe. Claim 1 is submitted to be allowable for at least this reason.

Claims 7-10 and 13 depend from claim 1 and are submitted to be allowable for at

least the same reasons as claim 1.

It is respectfully submitted that the foregoing arguments also show that a prima

facie case of obviousness has not been presented in connection with independent

claim 14. Claims 15-17 depend from claim 14 and are submitted to be allowable for at

least the same reasons as claim 14.

Claims 15 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Inbe in view of Troczynski and further in view of Niemeier. Claims 15 and 17 depend

from claim 14. Niemeier does not address the shortcomings of Inbe and Troczynski

discussed above. Claims 15 and 17 are therefore submitted to be allowable for at least

the same reasons as claim 14.

Respectfully submitted,

437.750

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Date: February 6, 2012